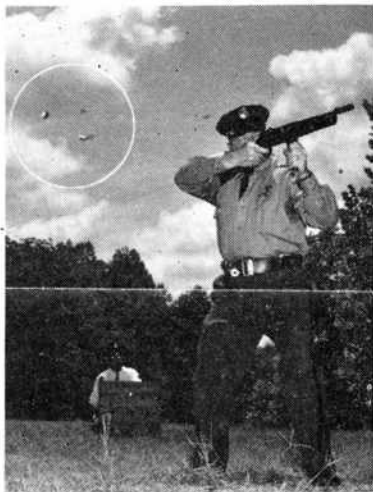




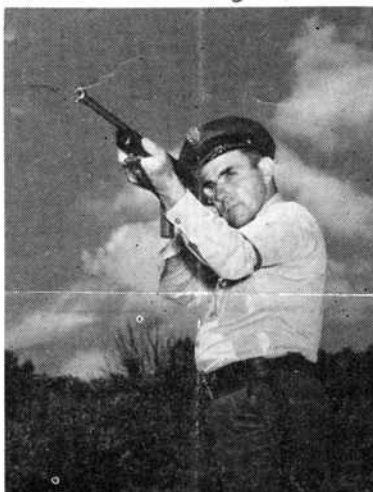
THE TWO WEEKS REFRESHER COURSE FOR Y-12 GUARDS INCLUDES A REVIEW OF basic instruction in the use of firearms. The group shown here is receiving instruction and practice in firing the .38 special revolver. From left to right are: C. B. Hillard, Captain M. L. Woodard, A. A. Pierce, T. R. Smith, J. H. Shoemaker, Shirley Honeycutt, H. H. Neal, J. D. Hopkins, O. D. Cloyd, and H. L. Mantooth.



J. H. SHOEMAKER TAKES his turn firing a riot gun. He's firing at a silhouette target.



H. HAGAN FIRES A .45 automatic Reising rifle. Note shells in circle.



SHIRLEY HONEYCUTT takes aim with a semi-automatic Reising rifle.

Playground Circus At Blankenship Field Next Wednesday Nite

Come on, kids—the Circus is in town! Hear the music of the calliope? See the band? And the ane-mules. They're somethin'! Golly, look there. It's a new kind of el-e-tum—a Black Albino. Boy, ain't he tremendous!

That'll be the talk of every kid in town—big 'uns and little 'uns—next week. 'Cause the Circus is coming to town again—the Third Annual Playground Circus sponsored by the Oak Ridge Recreation Department. So, come one, come all, out to the "Big Top" at Blankenship Field, Wednesday, August 15, for the greatest show on earth (with due apology to Barnum and Bailey.)

To Have Circus Parade

There'll be all the sparkle and glitter of the three rings. The kiddies will stage a big parade before the show to give the spectators an idea of the magnificence of the performance. Circus music will be furnished by the Oak Ridge Brass Band (High School Band) who will lead the 300 circus paraders down to the field. The parade will start at Tennessee and Central Avenues. It will be routed west on Tennessee to Kentucky, on to Broadway, and then

Continued on Page 2

Y-12 Guards Get Refresher Course In Use Of Fire Arms

Y-12 Guards are currently in the process of "shooting the works" at the pistol range near the National Laboratory. A two weeks refresher course in the use of firearms is being given to all Y-12 Plant Guards.

The course includes classroom instruction in the basic fundamentals in the use of fire arms; an entire week of practice and training with the .38 special revolver, 12 gauge riot gun, 45 calibre Rysing automatic and the semi-automatic; and, on the last day of the two week program, competitive firing on the range.

All have completed the basic instruction which is held the first week, and several groups are now taking advance training. The program is under the direction of Captain M. L. Woodard, training officer for the Y-12 Guard Department.

Synthetic Gem Display At Badge And Pass Office

Samples of synthetic gems and their ring settings, formerly on display at the Cashiers Office, are being displayed in the Polygraph room, adjoining the Pass and Clearance Office, at the North Portal. Families of Y-12ers visiting that office to have their pictures taken for the new photographic Oak Ridge Controlled area passes will have an opportunity to see the gems at the time. The gems will be displayed through August 31.

PADUCAH ROADS IMPROVED

According to the Paducah Sun-Democrat the state of Kentucky has awarded contracts for the improvement of about 11½ miles of road servicing the atomic plant near that city to be operated by Carbide and Carbon Chemicals Company.

Co-Directors Of First Aid Contest Meet With Bureau Of Mines; Plan Arrangements For September Event

Co-directors of the fifth Annual Carbide First Aid Contest, J. E. Campbell of K-25, B. G. Catron of ORNL and Lloyd N. Williams from Y-12, met last week with C. H. Dodge, Bureau of Mines representative from Jellico, Tenn. The purpose of the meeting was to make further plans concerning the scheduled meet.

Swim Party For Y-12ers Thursday Nite

Put that swim suit out now so you'll remember that tomorrow is the night for the big swimming party for all Y-12ers, their families and friends. Remember it starts at 8 o'clock, and that it is tomorrow night, Thursday, August 9, at the Oak Ridge Pool.

Plans have been made for plenty of fun for all with competition between departments and other groups. Prizes will be awarded by the Recreation Department to the winners of the contests.

A small admission fee will be charged to defray expenses—25 cents for adults and 10 cents for children from six to 16 years of age. Get set for a refreshing dip and lots of fun. We'll see you at the pool. Last one in is a sissy!

Oak Ridge Disaster Squad Conducts First Practice Problem

The Oak Ridge Disaster Squad, a unit of the community's Civil Defense Organization, held its first problem drill last week. Two squads, composed mostly of Y-12ers, cooperated in working the simulated disaster problem.

A group including C. B. Hopkins, M. R. Vineyard, and L. K. Flynn, all of Y-12, and O. G. Morgan, of K-25, set up the problem. They set up eight various types of shacks at the "problem ground" near the AEC Administration Building, to represent four buildings on each side of the street.

Take Only Four Minutes
When the second squad met at the City Administration Building at 5:15 last Tuesday evening, the members were informed of the disaster at the "problem ground." Within four minutes after the arrival at the scene the rescue squad had searched all buildings and removed a "body" found in one of the shacks.

The rescue squad was composed of Y-12ers A. F. Ogden, W. A. Parks, L. Wickham, E. R. Baxter, H. Raper, Bill Koons, R. T. Faulkner, J. E. Roberts, and D. McLaughlin, and H. R. Lowery, of Purchasing.

Timers for the rescue problem were G. E. Miller and C. E. Engel, of the AEC.

The disaster squads meet each Tuesday evening for training and practice in preparation for possible disasters that may occur in the Atomic City.

The annual event will be held at Blankenship Field, the high school football grounds, at 7:30 p. m., September 15, and will draw contestants from the three Carbide units in Oak Ridge and the Paducah Plant.

R. M. James, former Supervisor of the Y-12 Training Department and presently holding the same position at Paducah, has notified the directors of Kentucky's team entry. The addition of the Paducah team to the list of contestants brings the present total to 34 teams. There are 15 teams entered from K-25. The Oak Ridge National Laboratory has announced eight entries in the annual contest.

Ten Teams From Y-12

Ten teams have been organized in Y-12 with a possibility of four more teams. The teams already organized are: Analytical Chemistry Division; Isotope Research and Production Division; the Electrical Maintenance Department; Field Maintenance Department; Chemical Division, Department 2616; Buildings and Grounds; Fire Prevention and Control; Manufacturing Office Division; Personnel Department, and the Health Physics Department. The Training is being coordinated by the Y-12 Training Department in Bldg. 9704-2.

The winning team in the event receives \$175, of which \$105 is for being the best team in its respective plant and the additional \$70 for posting the best score. The second team in each plant receives an award of \$52.50 and the best team in each unit will receive a plaque award of their own.

Vic Bradford Gets Kentucky Position

Vic Bradford, whose picture appeared in the Y-12 Bulletin July 26, 1949, has been appointed assistant football coach at Kentucky. Vic is the nephew of Chief Miles H. Bradford of the Y-12 Guard Department.

Bradford was All Southern quarterback for Alabama before becoming a coach, first as assistant to George Saur at Kansas and then becoming assistant coach at the Naval Academy. He served as backfield coach at Baylor last year.

SAFETY SCOREBOARD

Your Plant Has Operated
4 Days

Without A Lost Time Accident

August 5, 1951

The Bulletin

Published Weekly By And For
Y-12 Employees Of
CARBIDE AND CARBON
CHEMICALS COMPANY
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GEORGE W. DOBBS . . . Editor
OFFICE
North Portal, Bldg. 9701-1
Telephone 7753



C. A. McAlister, of the Laundry Department, and his family plan to visit Cherokee, Gastonia, and Charlotte, N. C., while on a two-week vacation.

Sgt. W. C. Nelson, of the Guard Department, is the proud papa of a baby boy, born July 29, at the Oak Ridge Hospital—congratulations to both papa and mama . . . Capt. J. H. Conner and his wife spent last week's vacation camping out near Gatlinburg. . . P. E. Gipson is on a two-week vacation, 'tis said wedding bells will ring for him this week—congratulations, Gipson! . . . L. E. Bellamy and E. R. Johnson are among the two-week vacationers.

at Beacon Hall; those who enjoyed the occasion were: Martha Beals, Margaret Carter, Mary Hickman, Jeanette Arnold, Sylvia Hatmaker, Pauline Webb, Rubye Jones, and Mable Stapleton. . . F. P. Adams motored to New Jersey on a recent two-week vacation visiting relatives and friends while there. . . R. J. Thorne spent a recent week end with his folks in Nashville, Tenn. . . L. E. Barker is going around all smiles these days and with good reason as he is now the proud granddad of a baby girl, born July 24, at the Baptist Hospital in Knoxville. . . Folks in the department say it was a toss-up as to who ate the most hot dogs and watermelon when Spence Wallace's group went over to Concord Park last week. Mabel Butcher and Eva Lowe made the fellows take a back seat when they got down to pitching horseshoes—everyone reported an evening of fun.

Betty Arnette, of Property Sales, is vacationing at home in Knoxville this week. . . C. M. Miller and his wife motored to Florida for a two-week stay.

Polly Arnold, of Receiving and Shipping, is spending a peaceful week's vacation at home in Knoxville. . . D. E. Ferguson is vacationing this week. . . Charles Kirkwood, a former Y-12er, who is in the Air Force stationed at the Dow Air Force Base in Maine, visited the J. W. Garlands for a few days while on a 13-day leave.

Jeanette Crews, of the Manufacturing Office, is spending a few days in Nashville while vacationing this week. . . Richard Humphreys is also on a week of vacation. . . Wilber Hamby and his family are in Chicago, Ill., for two weeks of vacation.

Frances Smith, of the Property Department, is vacationing at home this week. . . Howard Esty and his family are spending their two-week vacation touring the Atlantic Coast. . . Folks in the department all join in welcoming T. A. Narcrosse back after his absence due to illness.

Hanes Laney, of Buildings and Grounds, is vacationing in Tuscaloosa, Ala. . . E. C. Greenlee, A. L. Stewart, W. B. Eisenhower, V. F. Carr and E. Bassell are all on vacation this week.

A. F. Kendig, of Transportation, is on vacation this week—over at Watts Bar Lake fishing. . . S. T. Burris and T. H. Burger are also vacationing this week.

Betty Riney, of the Uranium Control and Computing Department, A. K. Bissell and his wife, W. W. Combs and his family all decided to vacation at Myrtle



FUTURE PADEREWSKI? Perhaps. Anyhow, the young pianist shown above is Tommy Lynn Martin, son of Pauline Martin, of the Y-12 Cafeteria. He has been studying only six months and was pictured at a recital given recently by pupils of Mrs. Lester Smith.

Beach this week. . . Jeane Claire vacationed with her folks in Roanoke, Va., last week.

Charles Pepper, of the Isotope Research and Production Division, and his family are spending a two-week vacation in Wassau, Wis. . . Hugh Sadler and King Spainhour are vacationing in Florida.

Verney Sharp, of the Assay Laboratory, accompanied by her mother and nephew, motored to Cleveland, O., to visit her sister while vacationing this week. . . Ruth Andrews is vacationing this week . . . and Bill Garland has returned from a week of vacation. . . Belle Thompson is visiting relatives in Chattanooga, and resting up at home in Alcoa, while on a two-week vacation.

The Maintenance Shops Department wishes a speedy recovery for J. W. Ogden, E. C. McCoy and R. R. Carter.

Jeanne Rogers, of the Analytical Chemistry Division, vacationed last week with her folks in Pontiac, Mich. . . Virginia B. Smith and her husband, Guy, of the Chemical Department, are vacationing at home.

The Electrical Maintenance Department extends get-well wishes to W. B. Lyles and M. C. Gore. . . W. B. Adcock has returned from a week of vacation. . . J. R. Helton is back from a two-week vacation. . . Benjamin Barnes has returned from a week of vacation. . . S. E. Adams also is back from a week's vacation. . . F. G. Wright and W. S. Caruthers are on a two-week vacation.

The Cafeteria and Canteens Department get-well wishes to Verna Packman's mother. . . Sincere sympathy is extended to Madgline

Playground Circus At Blankenship Field

Continued from Page 1 to Blankenship Field.

The Oak Ridge Municipal Band under the direction of O. K. Sergeant will furnish the music at the field. Some 150 playground children will participate in the performance. The Playground Circus boasts the largest number of wild animals in the world in one extravaganza (well, human animals anyway . . .). And there'll be clowns, and tumblers and freaks. As the affair is billed—it's the "greatest show on earth."

Nine Big Acts

Nine playgrounds make up the Circus group. Entering acts are: Elm Grove, wild animals; Glenwood, freaks Cedar Hill, Hawaiian Paradise; Pine Valley, elephants; Gamble Valley, Syncopated Clock; Woodland, clown drill; Linden, tumblers; Highland View, trained horses; Willowbrook, Wild West Show; and from Oliver Springs, a performing Black Albino Elephant.

Around 7,000 people attended last year's performance, and an even larger number is expected this year. Ruth Jewel, Superintendent of Special Activities for the Oak Ridge Recreation Department, is coordinator of the affair.

Tackett at the death of her mother in Briceville, Tenn. . . Frankie Goss is spending a two-week vacation in Philadelphia, Pa., and New York. . . Tommie Goss is spending his two-week vacation taking it easy at home. . . Bill Monroe is vacationing at home in Maryville.

F. L. Daley, of the Material Chemistry Department, and his family are on a two-week vacation visiting relatives in Atlanta and St. Simons Beach, Ga. . . K. O. Johnson and his family are visiting the Albert Clarks, former Y-12er, in Washington, D. C. . . Dorothy Caldwell and her family are vacationing at Daytona this week. . . Dan Nicholson is also vacationing at Daytona. . . C. J. Barton and family are touring the New England states while on a two-week vacation.

Cephas Brewer, of the Steam Plant, is spending part of his two weeks vacation in Georgia. Fred Smith is enjoying a week's vacation at home in Heiskell.

Dr. H. F. Poppendick, of the Reactor Technology Division, spent part of last week in Washington, D. C. on a business trip. A. R. Frithsen and Dr. M. Tobias returned from a business trip to Wright Field, Dayton, Ohio. Congratulations to Mr. and Mrs. B. P. White on the birth of a daughter, Kathleen Ann, at the Oak Ridge Hospital, on July 28.

Get-well wishes are extended to Virginia Phillips, of the Personnel Department. Virginia is in the St. Mary's Hospital, Knoxville.



The following Y-12 employees were patients in the Oak Ridge Hospital last week: James R. Burgess, Field Maintenance; Nelson H. Bethea, Superintendents Department; Joseph W. Ogden, Maintenance Shops; Claude O. Jones, Electrical Maintenance; Barton B. Thornton, Stores; William H. Rice, Plant Engineering; Belitha Henley, Janitor's Department; Ray F. Benson, Reactor Experimental Engineering; and Edward H. Anderson, Biology.

AUSTRALIA EXTENDS AID

The New York Times says that radioactive isotopes for medical treatment are being applied without charge by the Australian government.

Attendance Record

MAJOR LEAGUE				
More Than 50 Employees Scheduled				
Dept.	Percentage Absent	7-29-51	7-22-51	Standing
2077	0.9	1	8	
2018	1.1	2	7	
2617	1.3	3	3	
2619	1.4	4	9	
2015	1.5	5	6	
2091	1.8	6	11	
2014	1.9	7	4	
2283	2.18	8	1	
2003	2.24	9	2	
2282	2.6	10	5	
2618	3.7	11	13	
2060	4.2	12	10	
2142	5.9	13	12	
2001	7.4	14	14	

Group absentee percentage was 2.4 per cent, remaining the same as the preceding week.

MINOR LEAGUE				
15-49 Employees Scheduled				
Dept.	Percentage Absent	7-29-51	7-22-51	Standing
2743	0.0	1	1	
2200	0.0	1	1	
2093	0.0	1	1	
2145	0.0	1	3	
2739	0.0	1	1	
2046	0.0	1	13	
2108	0.6	2	1	
2107	0.80	3	2	
2064	0.81	4	14	
2090	0.9	5	1	
2144	2.1	6	9	
2616	2.6	7	5	
2002	3.2	8	4	
2143	3.8	9	10	
2133	3.9	10	11	
2008	5.1	11	6	
2005	5.3	12	12	
2096	6.0	13	7	
2109	9.5	14	8	

Group absentee percentage was 2.5 per cent, .7 per cent lower than the preceding week.

The plant average for the week ending July 29, 1951 was 2.5 per cent, .1 per cent lower than the preceding week.

Knox-Ridge Engineers To Meet Tomorrow Night

Members of the Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers will hear Dr. J. M. Smith, Professor of Chemical Engineering at Purdue University, speak on the subject of "Design of Gas-Solid Catalytic Reactors," at 8 p. m., Thursday, August 9, 1951. The meeting will be held in Room 13, at the Oak Ridge Institute of Nuclear Studies.

Since 1945, Dr. Smith has been Professor of Chemical Engineering at Purdue University where his chief research interests have been in thermodynamics and applied reaction kinetics. His recently published book on chemical thermodynamics is well known to many engineers. Professor Smith's background includes graduate work at M. I. T. leading to his Doctor's Degree, preceded by several years experience in the design of refinery equipment for the Standard Oil Company of California and the Texas Company.



Two Y-12 employees became parents of babies born recently at the Oak Ridge Hospital. They are: Preston G. Herndon, a girl, born July 27, and W. C. Nelson, a boy, born July 27.

Inflation is like adding water to a pot of soup: The food value falls off as the quantity increases.



A CRYSTAL SHOWER WAS GIVEN FOR BOBBIE CHILDRESS, OF THE MEDICAL DEPT., at the home of Mrs. Edith Duckworth, 100 East Vance Road, on July 23, with Louise Argo as co-hostess. In the picture of the guests who attended, seated from left to right, are: Betty Davis, Eunice Arnold, Louise Argo, and Florence Stanford. Standing are Bobbie Childress, Edith Duckworth, Faye Cook, Ann Gross, Martha Borden, Doris Holladay, Clara Sharpe, Maurine Ledford, Katie Sparks, Virginia Phillips, and Dorothy Wiegelt. Bobbie was married to J. Alvin Robinson, of Knoxville, on July 31.

Red Birds Open Bid For State Tourney Berth

Robins Gain Tourney Post With 4-2 Win

The Y-12 Robins continued their winning streak Tuesday, July 31, when they defeated the K-25 Blue Belles to win the Oak Ridge A. S. A. tournament and become the Oak Ridge entry in the Tennessee State A. S. A. Tournament to be held at Chattanooga on August 11, 12 and 13.

The Robins scored three runs in the second inning and one in the fourth to gain their winning margin, of 4 to 2. The K-25 team collected all their runs in the fourth but lacked the drive to catch the Y-12ers.

This will be the Robins second attempt to win state honors. Their first trip to Chattanooga in 1950 produced a record of one win and two losses. Both defeats were close ball games and could have gone either way.

Line score follows:

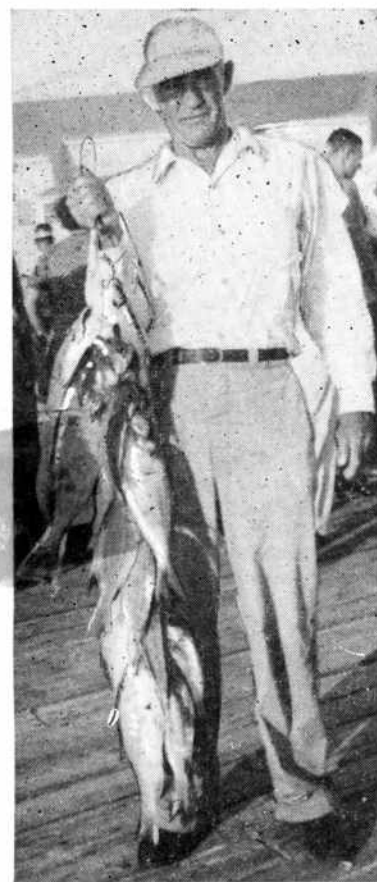
Team		R	H	E
Y-12	030 100 0	4	2	4
K-25	000 200 0	2	9	3

Y-12: Aikman and Roberts. K-25: Clough and Hobson.

Plant Golf League In Three Way Tie

The Y-12 Plant Golf League was thrown into a three way tie last week when the Four Hundreds and the Rippers won their matches and the Turf Riders lost their match to give each of them five wins and two losses.

In the week's competition the Four Hundreds defeated the Four Woods 15 to 21; the Rippers defeated the Birdies 11½ to 24½; the Hooks defeated the Turf Riders 17 to 19 and the Rough Riders defeated the Divots 13½ to 22½. In the final match of the week the Green Rays defeated the Deacons 14 to 22.



FISHING WAS GOOD DOWN on the Gulf of Mexico during the week of July 9, as is demonstrated in this one day's catch by M. P. Welch, of Electrical Maintenance. He and Mrs. Welch visited Panama City, Fla., and had good luck in two days of deep sea angling. The fish shown are red snapper and black grouper.

SPORTS NEWS IN Y-12

6-3/01



THE Y-12 ROBINS WON THE OAK RIDGE ASA CHAMPIONSHIP BY DEFEATING THE K-25 Bluebelles two straight games, 2 to 1 and 4 to 2. The Robins will represent Oak Ridge in the ASA state tournament at Chattanooga August 11, 12, and 13. The champions are, front row, left to right, Juanita Reed, Helen Aikman, Helen Brown and Jerry Morisset. Back row, l. to r., Imogene Loy, Bonnie Roberts, Ruby McGinnis, Ruth Sweat and Beverly Greer. Margaret O'Neil was not present when the picture was taken.

Golfers Stay Out In Front In Two Leagues

The Y-12 Ironmen participated in two golf matches over the week end and won both to hold their lead in the Smoky Mountain Golf League. The Y-12ers defeated TVA at Whittles Sunday morning, then returned to Oak Ridge to gain low total in the Inter-Company match Sunday afternoon.

The golfers defeated TVA 14½ to 5½ with Carl Dorr having the best score of 71. Bill Bauman helped pace the Y-12ers with a 72.

In the afternoon match, after a ninety-mile-and-hour drive from Knoxville to Oak Ridge, the Y-12ers placed four men in the top seven golfers to win the second Inter-Company match. Dorr again paced the team with a 76 good for second place. Cater, Shugart and Bauman followed in that order. Y-12 now has low point total with 268 to lead in the Inter-Company competition.

Four Y-12ers Place In Sunday Racing

Four Y-12ers placed in the first race of a series of ten races sponsored by the Oak Ridge Power Squadron, at the Concord Boat Dock. Bob Schroeder of the ANP Division placed first ahead of Gus Angele of Plant Engineering.

Another Y-12er, George Lockhart, of Planning and Estimating, placed sixth in the race. Francis Gilliam skipping a Girl Scout entry in the race placed ninth. Gilliam is in the Material Chemistry Division.

The next race will be held August 12, 2:30 p. m., at the Concord Boat Dock.

FLIGHT PLAY STARTS IN PLANT GOLF TOURNEY

All qualifiers for the Y-12 Flight Golf Tournament must turn in their cards to the Recreation Office at the North Portal by tomorrow at 4:30 p. m.

Flight play will start Saturday, August 11, at the Oak Ridge Golf Course.

Y-12 Tennis Team Gains 5-1 Victory

The Y-12 men's tennis team came through with a 5 to 1 victory over K-25 last week by winning five singles matches and dropping their single point in a doubles match loss. Nat Smith won over Thayer in a thriller, 5-7, 7-5, 10-8. Al Hodges defeated Nemo 6-3, 6-2; Fred Hurst eased through Michael, 6-3, 6-3, and Burt Capehart defeated Harrison, 6-2, 6-1. In the final singles match Charlie Barton won over Levin, 7-5, 6-3.

The first doubles was won by Marlino and Gabor of K-25 over Moore and Wells, 6-4, 6-2. The second doubles match was canceled when both teams failed to produce players for the match. Y-12 meets AECEA Thursday, August 9.

Cardinals Losers To ORNL Nine, 5-4

The Y-12 Cardinals dropped a close decision to the ORNL team 5-4, Thursday, August 2, at the Gamble Valley diamond.

The game was even all the way with the Y-12ers scoring a run in the first of the seventh inning to tie the ball game. The deadlock was soon broken when the Labsters scored in the last of the seventh to gain their victory.

Line score follows:

Team		R	H	E
Y-12	100 002 1	4	3	3
ORNL	010 210 1	5	6	5

SHOULD CLEAN LACES

When white shoes are cleaned, the white shoe laces should be washed with hot soapsuds.

Y-12 Girls Defeat Florida Champions In Twelve Innings

The Y-12 Robins, Oak Ridge ASA women champions and the Oak Ridge entry in the ASA state tournament at Chattanooga, defeated the Florida state champions, 1-0, in a twelve inning ball game Wednesday, August 1, at the Midtown diamond. The game was one of the best ever witnessed in Oak Ridge, with the Y-12ers playing twelve innings of errorless ball.

The team showed real championship form in both fielding and heads-up scftball. The St. Petersburg lassies could do little on the bases without being thrown out by catcher Bonnie Roberts. A single with a runner on first, more than once was turned into a forced play at second. To sum up the game one can say little more than that the girls played excellent ball.

Helen Aikman did the pitching for Y-12 for the first seven innings, being relieved in the eighth by Fay Clough. Aikman returned to relieve Clough in the tenth when Clough walked the first batter.

In the last of the twelfth with one out, Rubie McGinnis, who had a double earlier in the game, singled to put what turned out to be the winning run on first. McGinnis went to second on a passed ball, and scored from second when Imogene Loy hit a hard ball through the second baseman and out to right field.

The Robins closed the week's play with a loss to the Athens girls team 2-1. The Athenes gathered two runs on four hits and one error. Y-12 had one run on four hits and three errors.

Line scores follow:

Team		R	H	E
St. Petersburg	000 000 000	0	8	2
Y-12	000 000 000	0	1	4

St. Petersburg: Cruse and Miller. Y-12: Aikman, Clough and Roberts.

BRITISH PLAN PARLEY

The London Times has announced that representatives of about 20 nations will attend a British international council for exchange of information on beneficial uses of atomic energy. The meetings will be held at Oxford.

Play Winners Of Lab, K-25 Tilt Thursday

The Y-12 Red Birds are primed and ready for their first game in the Oak Ridge ASA Tournament, tomorrow night, at 8 p. m., at the Midtown diamond. The Y-12ers will meet the winner of last night's game between K-25 and ORNL. The winner of the tournament will represent Oak Ridge in the ASA state tournament at Chattanooga, August 24, 25, 26, and 27.

The Red Birds had four games last week to ready themselves for the coming tournament. They met the Clinton All Stars in two of the four matches, winning the first by 3-1, and dropping the second, 4-2. The second game played Wednesday, August 1, was an eleven inning game preceding the twelve-inning nightcap between the Robins and the St. Petersburg, Fla., lassies, making 23 innings of soft-ball.

The Red Birds dropped three more games over the week end when they lost to Athens Friday 6-1, and traveled to Canton, S. C., to lose a doubleheader 2-1 and 9-3.

Team		R	H	E
Clinton	000 100 100	02	4	6
Y-12	001 001 000	00	2	7

Clinton: Nix and Gill. Y-12: Sise (6), Loy and Hale.

Y-12 Racqueteers Make Clean Sweep Over ORNL

The Y-12 Womens' Tennis Team made a clean sweep of their match with the ORNL team Monday, July 30. The Y-12ers had little trouble winning four singles matches and two doubles matches for the six point win.

In the singles, Joan Gilliam defeated Lane by default, Mozelle defeated Comare, 6-0, 6-3; Liz Patrick won over Sachs, 6-2, 6-0 and Mary Freestone defeated Long, 6-2, 6-0.

In the doubles May Hale and Lovelle Thompson defeated Silverman and Khym 6-3, 6-3. In the final matches Virginia Spivey and Phyllis Finneran won by default.

The next match will be played against K-25 on Monday, August 13.

Slow Pitchers Lose To AEC Softies

The Y-12 Slow Pitch Team lost their second game of the second half Wednesday, August 1, to the AECEA team by a ten to nine decision. The Y-12ers tied the score in the first half of the seventh but allowed AEC to score one in the last half of the inning to win the game.

Y-12 collected their nine runs on 14 hits with John Agee getting four hits, among them a double and a home run, for four times at bat. Anderson and Koons were the batteries for Y-12.

Line scores follow:

Team		R	H
Y-12	301 030 2	9	14
AECEA	403 011 1	10	13

Y-12: Anderson and Koons. AECEA: Sharp and Young.

Palo O'Neal Wins Junior Golf Crown

"That's my boy," says Norman O'Neal of the Chemical Department, and rightly so, for his son is Palo O'Neal, winner of the Oak Ridge Junior Golf Championship, and also runner-up in the Tennessee State Meet sponsored by the Junior Chamber of Commerce. O'Neal will now represent Tennessee in the Regional meet to be held in South Carolina, in August.

More Sports News
On Page Four

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Sparks Upset Orphans 14-4; 9212 In Lead

SCHEDULE FOR COMING WEEK
Wednesday, August 8, 6 p. m., 49ers vs Orphans. 7:30 p. m., Grocers vs Sparks. 9 p. m., Rusty 9 vs All Stars.
Thursday, August 9, 6 p. m., 9211 vs Duds. 7:30 p. m., Isotopes vs Bldg. 9212. Monday, August 13, 6 p. m., Grocers vs Bldg. 9211. 7:30 p. m., Bldg. 9212 vs Rusty 9. 9 p. m., Sparks vs 49ers.
Tuesday, August 14, 6 p. m., All Stars vs Isotopes. 7:30 p. m., Duds vs Orphans.

The Sparks of the Y-12 Area Softball League pulled the upset of the week when they defeated the Orphans 14 to 4, to allow the Bldg. 9212 team to move into first place. 9212, the Duds and the Isotopes were the only two game winners for the week with the Orphans, Sparks, All Stars and 49ers winning one and losing one.

The Orphans are now in second place, one game behind 9212. The Duds still hold their third place position while the Sparks and the All Stars are tied for fourth.

League standing and results of games played last week follow:

LEAGUE STANDING			
Team	W	L	
9212	11	1	
Orphans	10	2	
Duds	8	3	
Sparks	6	5	
All Stars	6	5	
Isotopes	5	5	
Grocers	4	8	
Rusty 9	4	8	
9211	3	9	
49ers	2	9	

Team	R	H
Orphans	644	001 1-16 16
Grocers	001	001 0-2 4
Orphans: Koons and Stephens, Noe.		
Grocers: Kinyon, Doss and Walker.		

All Stars	000	121-4 7
9212	006	35x-14 15
All Stars: Twitchell and Marrow.		
Barker and Moses.		

Duds	003	091-13 8
Sparks	320	007-12 10
Duds: Fowler and Anderson.		
Sparks: Maness and Lanier.		

Rusty 9	310	0-4 4
Isotopes	526	4-17 10
Rusty 9: Byrd, McAllister and Morris.		
Isotopes: Killiam and Shotts.		

49ers	042	350 0-14 8
9211	000	000 4-4 5
49ers: Bishop and Jones.		
9211: Burnett, Baer and Vandyke.		

9211	000	110-2 4
9212	160	206-15 12
9211: Baer and VanDykes.		
Barker and Moses.		

Rusty 9	000	1-2 4
Duds	305	11 8-27 14
Rusty 9: McAllister, Thomas and Morris.		
Duds: Law and Anderson.		

49ers	014	11-7 7
Isotopes	123	3x-9 9
49ers: Bishop and Jones.		
Isotopes: Love and Shotts.		

Team	R	H
Grocers	600	001-7 5
All Stars	200	204-8 12
Grocers: Doss and Walker.		
All Stars: Cottrell and White.		

Orphans	101	020 0-4 8
Sparks	030	407 x-14 13
Orphans: Koons and Noe.		
Sparks: Maness and Lanier.		

United States railroads, with 225,000 miles of track network from coast to coast, haul 1,000,000 tons of freight a mile every minute, and in addition 550,000,000 passengers a year. With but six per cent of the world's land area, our country has 29 per cent of the world's railroad mileage.

Sound Of Falling Pins Near As Y-12 Leagues Get Ready

It won't be too long before the sound of falling pins will come from the Oak Ridge alleys. With the beginning of the 1951-'52 bowling season in mind, here is a sneak preview of bowling activities being planned for Y-12ers.

In addition to the men and women's varsity teams in the City League and the old stand-bys, B, C, D and W Leagues, a new Mixed League has been added. With new bowlers added to the other enthusiasts all leagues are sure to have plenty of competition and early organization and entries in the leagues will be necessary.

A line up of the league is as follows: The B League will again have twelve teams, and is scheduled to roll on the Oak Terrace Alleys at 6 p. m., Thursday night.

The C League will be an eight team league and will roll on the Central Alleys at 6 p. m., Wednesday nights. The D League will do its bowling on the Jefferson Alleys at 6 p. m., Tuesday, and the W League will bowl on the Central Alleys at 8:30 p. m., Wednesday. The Mixed League will meet at the Jefferson Bowling Alleys on Monday night at 8:30 p. m.

More information concerning the Mixed League will be announced at a later date along with an announcement of organizational meetings of the other leagues.

Ky. Governor, Dunbar Mull Paducah Problems

Kentucky Gov. Lawrence Weatherby and Kenneth Dunbar, Atomic Energy Commission for the Paducah plant, have conferred on progress of meeting problems created by construction of the half-billion dollar atomic energy plant at the Kentucky Ordnance Works, near Paducah, the Paducah Sun-Democrat reports. The plant is to be operated by Carbide and Carbon Chemicals Company, UCC, when completed. Gordon Molesworth, assistant to the manager of the Oak Ridge Operations of the AEC, also attended the meeting.

Defense Homes Planned For Paducah and Aiken

Erection of defense homes at new Atomic Energy Commission installations at Paducah, Ky., and Aiken, S. C., will be started soon by the Gunnison Homes, Inc., it has been reported in the New York Times. Gen. John J. O'Brien, president of the pre-fabricated housing subsidiary of United States Steel Corp., is quoted by the paper as saying the projects are being undertaken in cooperation with the AEC.

DAYLIGHT TIME SOUGHT

The Paducah Sun-Democrat reports that the F. H. McGraw and Co. has asked the Paducah board of commissioners to consider adoption of daylight savings time to facilitate construction of the \$500,000,000 atomic plant near that city.

Carbide Patent Office Explains What Makes Inventions Authentic; What Is Necessary For Employees To Apply For Patents For Ideas

The following article is the first of two written by Fred Lewis, of the Carbide Patent Office. The first part explains what constitutes an invention. The second, which will appear in the Bulletin next week, deals with proof of invention.

By FRED LEWIS

"Lee, come over here and look at this. I've just discovered that you can weld two plastic rods together by mounting them in a lathe and spinning one against the other."

"Not bad. What kind of plastic is this?"

"Lucite. Think I've made an invention?"

"Sure. You just said you discovered this, didn't you?"

"You know what I mean. Is it patentable invention?"

"All I can say is that we'd better check with the supervisor and ask him to notify the Company Patent Office."

"Why do that?"

"Standard practice procedure. The Company is obliged by its contract with the Government to disclose all inventions and discoveries to the AEC. The inventions and discoveries belong to the Government. It's our job to start the ball rolling by making sure that the Company Patent Office hears of this development."

"Oh. Can a patent be drawn on an idea like this?"

"Sure. According to law, patents are obtainable on chemical and physical methods, machines, compositions of matter—such as dynamite—and manufactured articles—from cotter pins to vacuum tubes. Ornamental designs and certain kinds of living plants are patentable, too."

"In other words, just about anything can be patented."

Unpatentable Matter

"Not by a long shot. In the first place, some developments don't fit into any of the classes of patentable subject matter—the categories I just mentioned. Printed material doesn't. Neither do methods of doing business, or computations. The Theory of Relativity won't qualify, nor the discovery that the vapor pressure of hexane is so-and-so. Results and effects are not patentable, although the means of obtaining them may be."

"Well, I guess my idea would be OK as a physical method."

"Right. Your method qualifies as to subject matter, but it still must clear three more hurdles: novelty, utility, and ingenuity."

"Huh?"

First And Original

"That's right. Novelty, of course, means that the invention must be new, not only to the inventor himself but to the public. An inventor applying for a patent must swear

that he believes himself to be the first and original inventor, and that he does not know or believe that his invention was known or used anywhere before he conceived it."

"Well, I guess I could swear to that."

"He must also swear that to the best of his belief the invention was not patented or described in a printed publication in any country more than one year prior to the date of his application. And he must state that the invention has not been in public use or on sale in this country for more than the same period of time."

"Check."

Reasons For Rejections

"As the application makes its way through the U. S. Patent Office, a reference may be found establishing that the invention actually was known or used in this country before the present inventor's conception date. The invention would then be rejected as unpatentable. Likewise, the invention would be held unpatentable if exceptions are found to the other sworn statements made by the inventor."

"I get it. Say, Lee, I've made a little sketch of this set-up for record purposes. How about witnessing it for me?"

"Sure. Do you have one of those witnessing stamps furnished by the patent office? No? Well, lend me your pen. Read and understood on this date by the undersigned. That ought to take care of it."

"From the looks of this weld you've made, George, I would say that your method meets the test of utility. In other words, it accomplishes a beneficial result. The law doesn't require that your method be superior to, or even as good as, other methods for accomplishing the same object."

"Well, personally, I think it's the best I've seen. Now let's see. This brain-child of mine seems to fit into one of the classes of patentable subject matter. It may have novelty, and it appears to have utility. Anything else required?"

Ingenuity Highest Hurdle

"Yes. Ingenuity. That's usually the highest hurdle and it's the hardest to define. As applied to inventions, ingenuity means skill which is above and beyond that of the ordinary person versed in the art. Versed in the art means that this mythical person has knowledge of all that has ever been published or publicly practiced in the field of the invention."

"I'd like to have just one of those ordinary persons in this section."

"I see what you mean."

"Seriously, Lee, how can I possibly tell whether or not my invention is beyond the skill of this so-called ordinary character?"

"Maybe you can't. That's one reason for calling in the Company Patent Office."

Must Be Compared

"The trouble is, George, there's no arbitrary measuring stick for determining whether an invention is more than every-day expediency or routine engineering. In each case, the invention must be compared with its predecessors to determine what features really are new. Then comes the question, do these features—singly or in combination—call for more skill than can be expected from competent workers versed in the art? Do the features represent something unobvious, unexpected, or unpredictable? If so, the invention probably is patentable."

"Probably? Now what do you mean by that?"

"I mean we've hit just the high spots, George. There are a few other considerations. And speaking of considerations, you owe me a coke by now. Come on. I'm dry."

Next Week—"Proof of Invention"

'How To Live With The Heat' Is Revealed In Simple Rules

Those long, hot summer days which most of us must live with are right here.

Despite high temperatures, Y-12ers can be happy and get along nicely with hot weather in plant, office, and home, if they follow a few simple rules regarding clothing and ventilation; by taking in plenty of salt and drinking plenty of water, and by avoiding unnecessary exertion if they feel dizzy or more tired than usual.

Lessons From Tropics

To tell how to "live with the heat and like it," comes Dr. Victor G. Heiser, noted consultant on industrial health and medicine. In order to feel comfortable during the summer months, he says, everyone should take a few lessons from the men who live and work in the tropics, or from those who work in America's heavy-industry plants.

"Men working in tropical countries dress properly for hot weather and take in a lot of salt," says Dr. Heiser. "They drink plenty of water, but it must not be too cold. By doing this, they replace the moisture in their system and the salt in their blood stream, which is sweated out in hot weather."

Clothing Is Important

"Men who work in heavy-industry plants say they keep comfortable by drinking beer. But it isn't the beer so much as it is the salted pretzels they munch with their suds!" The kind of clothes and the way they are worn during hot weather are very important. Shirts should be open at the collar; underwear should be of lightweight material, Dr. Heiser says. Trousers and coats should be made of light, porous material, and shoes should be of the open type, to permit air to circulate freely around the feet.

Hats should be well ventilated, light in weight and color, with the hat-band standing well away from the hat itself so that air can reach all parts of the head.

Modern women need little advice on proper dress for the "dog-days." Years ago they adopted a summer fashion that should set an example for the men. Women

generally wear very little clothing, open collars, no hats or stockings, open-toed shoes and as few undergarments as possible. By dressing that way, Dr. Heiser says, they are permitting air to reach nearly every part of the body, thus reducing body temperature.

Cross-Ventilation Valuable

Good cross-ventilation in the home or in the plant will go a long way to ease suffering from heat. All windows should be opened, with an electric fan or two on the floor to keep the air moving. This will reduce room temperatures 10 to 15 degrees.

People who sweat freely are easy victims of heat strokes, which are caused by a lack of salt in the blood stream. They should take in plenty of salt to make up for that lost perspiration.

Dizziness and an overly-tired feeling are the first signs of heat stroke. To avoid being overcome, one should stop work at once and rest. If the condition doesn't improve, the plant doctor or nurse should be consulted.

Dr. Heiser strongly advises perspiring people to avoid shade or cool places unless they first throw a jacket over their shoulders and cool off gradually. Walking from a hot area into a shady or cool spot is an invitation to a heat stroke. Then deep breaths, in many instances, will ward off a sudden chill.

Rides Wanted And Offered

Riders Wanted—From Oak Ridge to Y-12, straight day shift. W. B. Wright, home phone 2-1374 or telephone 7511.

Ride Wanted—From Fountain Ave., Fountain City. Straight day shift. Joe Brown, telephone 7649.

Ride Wanted—or car pool arrangement—from Arlington section of Knoxville, straight day shift. J. E. Temple, telephone 7741.

You can't save your face if you lose your head.